Remote Sensing Applications Division (RSAD)

CDR Program Office

Weekly Report for June 21, 2013
Ed Kearns, Acting Chief

CDR	PI / TM	Assessment		Deliver Drafts						Review and Provide Feedback						Deliver Final Versions						Misc		Archive			Release		
		Assemble IPT	Perform Assessment	Deliver source code sample and README draft	Deliver Flow Diagram Draft	Deliver C-ATBD Draft	Deliver Maturity Matrix Draft	Deliver Sample netCDF dataset	Deliver SA Draft	Provide feedback on source code and README	Provide feedback on Flow Diagram Draft	Provide feedback on C-ATBD Draft	Provide feedback on Maturity Matrix Draft	Provide feedback on Sample netCDF dataset	Provide feedback on SA Draft	Deliver final source code and README	Deliver final Flow Diagram	Deliver final C-ATBD	Deliver final Maturity Matrix	Deliver final netCDF dataset	Deliver final SA	Submit Collection Level Metadata	Conduct Security Review	Archive Code Package	Archive Docs	Archive Data	Put dataset on THREDDS access server	Put data, docs, and code on web page	Conduct ORR
1 UAT 4Layer MW RSS	Mears / Kim	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	29-Jan	7-Feb	30-Jan	30-Jan	7-Feb	11-Feb	14-Feb
2 MW Imager SSM/I(S)	Kummerow / Semunegus	x	x	19-Apr	x	x	x	x	23-Apr	x	26-Apr	26-Apr	x	x	3-May		18-Jun		18-Jun	30-May	29-May								July 2013
3 PERSIANN	Soroosh / Nelson	x	x	26-Feb	30-Jan	x	30-Nov	28-May	11-Jun	4-Mar	22-Feb	22-Jan	17-May	10-Jun	14-Jun		17-May												Aug 2013
4 AMSU-A FCDR (11 Channels)	Zou / Semunegus	x	x	29-Apr	6-May	6-May	6-May	29-Apr	Info in ATRACS		8-May	8-May	8-May	1-May															Sep 2013
5 MSU FCDR (3 Channels)	Zou / Semunegus	x	x	29-Apr	6-May	6-May	6-May	29-Apr	Info in ATRACS		8-May	8-May	8-May	1-May															Sep 2013
6 AMSU-A FCDR (CH7 GPSRO)	Ho / Shi	x	x	15-Jul	30-Jun	30-Jun	30-Jun	15-Jul	15-Jul	15-Jul	15-Jul	15-Jul	15-Jul	20-Jul	20-Jul	30-Jul	20-Jul	20-Jul	20-Jul	30-Jul	30-Jul	5-Aug	5-Aug	8-Aug	5-Aug	5-Aug	10-Aug	10-Aug	Aug 2013
7 OISST	Reynolds / Banzon	x	x	x	x	30-Jun		x	x	x	x	x			x	x			x	x						x	x	x	FY13 BU
8 Bended Sea Winds	Zhang / Zhang																												FY13 BU
9 HIRS FCDR, Cloud/Moisture Bundle	Menzel / Young	x	31-Jan																										Nov 2013
10 Ocean Surface (SST, Sfc Props, Heat Flux)	Clayson / Zhang	x	21-Feb																										Nov 2013
11 ISCCP	Rossow / Knapp	x	17-Jan	On hold until funding																									FY14
12 OLR Daily	HT Lee / Shi	x	x																										Dec 2013
13 Vegetation (Sfc Ref, NDVI) (LAI/fPAR)	Vermote / Matthews	x	17-Jan	22-May				22-May																					Dec 2013
14 MSU/AMSU Temp Suite	Ho / Shi	x	PI requested 1 yr ext																										FY14
15 AVHRR FCDR (5 CHs, Cloud Properties)	Minnis / Young																												Mar 2014
16 Cryosphere (APP FCDR) (APP-x TCDR)	Key / Young	13-Jun	x																										Jun 2014
17 AVHRR FCDR (Ch 3b-4-5)	Mittaz / Banzon																												FY14
18 Stratospheric (Ozone and Water Vapor)	Rosenlof / Young																												FY14
19 Solar Irradiance (Observational)	Pilewski / Zhao	x	1-Jan																										FY14
20 Solar Irradiance (Composite)	Lean / Zhao	x	1-Jan																										FY14

6/26/2013

🟢 = On-track   🟡 = Potential management action required   🔴 = Management attention required

	CDR	PI / TM	Notes	Conduct ORR
1	UAT 4Layer MW RSS	Mears Kim	1) Completed (2/14/13)	14-Feb
2	MW Imager SSM/I(S)	Kummerow Semunegus	2) **Hard drives (6.4 TB) should be done by Friday; started ORR checklist, Received final Flow Diag and MM, still waiting on final code and C-ATBD**	July 2013
3	PERSIANN	Soorosh Nelson	3) Sent comments back on second draft of C-ATBD and Sample data; draft SA completed	Aug 2013
4	AMSU-A FCDR (11 Channels)	Zou Semunegus	4) **PI added uncertainty estimates; updated C-ATBD**	Sep 2013
5	MSU FCDR (3 Channels)	Zou Semunegus	5) PI updated metadata and flow diagram based on feedback received; also sent updated source code	Sep 2013
6	AMSU-A FCDR (CH7 GPSRO)	Ho Shi	6) Out of office until mid June, but sent a schedule to deliver docs in June, data and code in July	Aug 2013
7	OISST	Reynolds Banzon	7) C-ATBD expected in June	FY13 BU
8	Bended Sea Winds	Zhang Zhang	8) Sent templates and sample ORR checklist to PI	FY13 BU
9	HIRS FCDR, Cloud/ Moisture Bundle	Menzel Young	9) Code looks easy to run; PI only sending code for CTP and TPW not data; Cao work for N6, 7, 8 calibration	Nov 2013
10	Ocean Surface (SST, Sfc Props, Heat Flux)	Clayson Zhang	10) This bundle will still break out into several CDRs	Nov 2013
11	ISCCP	Rossow Knapp	11) Waiting on funding to continue work	FY14
12	OLR Daily	HT Lee Shi	12)	Dec 2013
13	Vegetation (Sfc Ref, NDVI) (LAI/fPAR)	Vermote Matthews	13) **Held telecon with PI, Martin working on flow diagram and C-ATBD**	Dec 2013
14	MSU/AMSU Temp Suite	Ho Shi	14)	FY14
15	AVHRR FCDR (5 CHs, Cloud Properties)	Minnis Young	15)	Mar 2014
16	Cryosphere (APP FCDR) (APP-x TCDR)	Key Young	16) Can provide NRT updates (3 day lag)	Jun 2014
17	AVHRR FCDR (Ch 3b-4-5)	Mittaz Banzon	17)	FY14
18	Stratospheric (Ozone and Water Vapor)	Rosenlof Young	18)	FY14
19	Solar Irradiance (Oservational)	Pilewski Zhao	19)	FY14
20	Solar Irradiance (Composite)	Lean Zhao	20)	FY14

Column group headers: Assessment (Assemble IPT, Perform Assessment) | Deliver Drafts (Deliver source code sample and README draft, Deliver Flow Diagram Draft, Deliver C-ATBD Draft, Deliver Maturity Matrix Draft, Deliver Sample netCDF dataset, Deliver SA Draft) | Review and Provide Feedback (Provide feedback on source code and README, Provide feedback on Flow Diagram Draft, Provide feedback on C-ATBD Draft, Provide feedback on Maturity Matrix Draft, Provide feedback on Sample netCDF dataset, Provide feedback on SA Draft) | Deliver Final Versions (Deliver final source code and README, Deliver final Flow Diagram, Deliver final C-ATBD, Deliver final Maturity Matrix, Deliver final netCDF dataset, Deliver final SA) | Misc (Submit Collection Level Metatdata, Conduct Security Review) | Archive (Archive Code Package, Archive Docs, Archive Data) | Release (Put dataset on THREDDS access server, Put data, docs, and code on web page, Conduct ORR)

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SCHEDULE OF DELIVERABLES - CDRP 2012 O&M Contracts and Grants

Name of PI/Institution	Applications	Implementation Plan	Main Update	Routine updates	QA Tools/Process	IP License	CDRP action required?
Christy, J./UAH	- *Atmospheric Temperature Profiles* - *Numerical Weather Prediction*	11/7/2012 CDRP-PLAN-0296	To be coordinated with CDRP, new version - should deliver Aug/Sep	Monthly/8th day of the succeeding month - once delivered	Will need to submit his procedure as part of his new version	YES	YES **CH** - contact the PI with CDRP decision on v5.5 and schedule an IPT on moving forward with v6
Evans, B./UM (CICS-NC)	- *El Nino/La Nina Prediction* - *Coral Reef Monitoring* - *IMPACT*	9/12/2012 CDRP-PLAN-0290	Received 2011, will receive 2012 in June 2013	Monthly/10th day of the succeeding month	10/23/2012	NO	No
Heidinger, A./NOAA-STAR	- *Global Cloud Coverage* - *Agriculture Assessment*	8/16/2012 CDRP-PLAN-0223	Will be delivering entire POR re-processed in netCDF format	Daily/Within 7days of the observation date	9/1/2012	N/A	YES **CH** - monitor progress with needed changes in the SA
Ho, B./UCAR	- *Upper Air Climate Monitoring* - *GPS Accuracy*	11/5/2012 CDRP-PLAN-0294 (CH9) CDRP-PLAN-0295 (CH7)	To be coordinated with CDRP, new version	Quarterly/10th day of the month following the end of the quarter	12/17/2012	YES	YES **CH** - monitor progress with needed changes in the SA
Mears, C./RSS (CICS-NC)	- *Atmospheric Temperature Profiles* - *Numerical Weather Prediction*	10/30/2012 CDRP-PLAN-0301	1/15/2013	Monthly/8th day of the succeeding month	12/15/2012	YES	No
Meier, W./U of CO	- *Arctic Shipping Routes* - *Wildlife Management* - *IMPACT*	11/1/2012 CDRP-PLAN-0285	4/30/2013	Quarterly/within 30days of each RSS data delivery	12/1/2012	YES	YES **CH** - monitor progress with final delivery
Robinson, D./Rutgers	- *Climate Monitoring* - *Water Resource Management*	10/11/2012 CDRP-PLAN-0297	N/A	Monthly/5th day of the succeeding month	11/10/2012	YES	No
Wentz, F./RSS (CICS-NC)	- *Precipitation Patterns* - *Hurricane Intensity Estimates*	11/1/2012 CDRP-PLAN-0308	To be coordinated with CDRP, new version	Monthly/10th day of the succeeding month	Will need to submit his procedure as part of his new version	YES	YES **JP -** contact PI about waiver and disclaimer before we can release v7 to the public

CDR Program Office
NPP/JPSS Climate Raw Data Records (C-RDRs) Project

Weekly Report – June 21, 2013

VIIRS

① • Completed code for C-RDR.
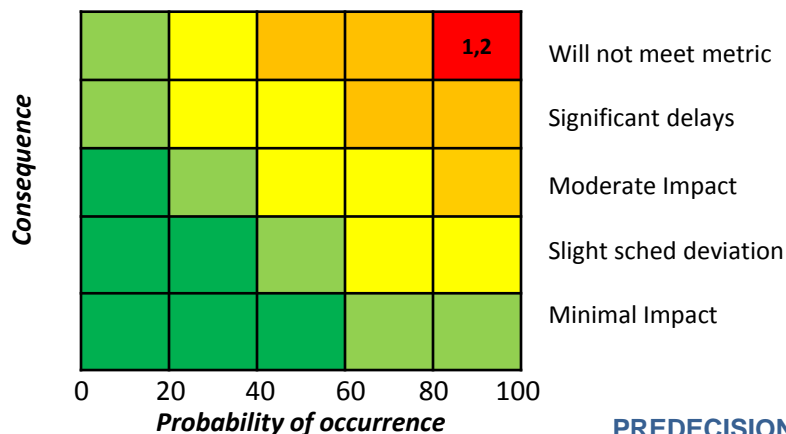
System Infrastructure

② • Integrating with the VIIRS C-RDR.

- **Completed build of C-RDR on the TEST container.**
- **Identified additional issues with TEST container ITB are resolving.**
- **Evaluating JPSS support data Change Requests and their effects.**
- C-RDR is first product moving to three tier environment so steps are documented as they occur.
- Initial verification of SDR from C-RDR compared successfully.
- Draft System Acceptance Test procedure completed.
- VIIRS Product Specification is ITAR approved.
- C-RDR access via HAS (two years of tapes for HDSS).
- Integrating: Ingest data from CLASS and producing C-RDRs.
- Will deliver initial version with ADL 3.1.

C-RDR Project	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
Milestones						DSRR,TRR,SAT,ORR											
Finalize Code					▨												
TEST						▨											
Dry Runs						▨											
SAT							▨										
OPERATIONS							▨										
Prepare OPS							▨										
Operations											▨▨▨▨▨▨▨▨						
Write SOP							▨										
Write OAD							▨										
CR: Support Data									▨▨								
CR: Reprocess											▨▨						

R2O PHASE:	ANALYSIS	DESIGN	DEVELOPMENT	INTEGRATION	TEST	OPERATIONAL

Risk Matrix

				1,2	Will not meet metric
					Significant delays
					Moderate Impact
					Slight sched deviation
					Minimal Impact

Consequence (y-axis)

Probability of occurrence — 0 20 40 60 80 100

Risk and Mitigation

VIIRS, CrIS, ATMS –
- Resources are being reduced. Delivery of CrIS and ATMS will be delayed.
- Operational software is under maintenance, updated versions may affect C-RDR ported version.

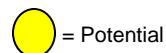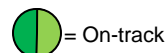**System Infrastructure –**
Reliability of NPP RDRs from CLASS. Need to test ingest of RDRs from CLASS and develop an automated mechanism for re-requesting data.
Reliability of Blade Center administration support. ITB admin position remains unfilled. ITB is working to fill the position.

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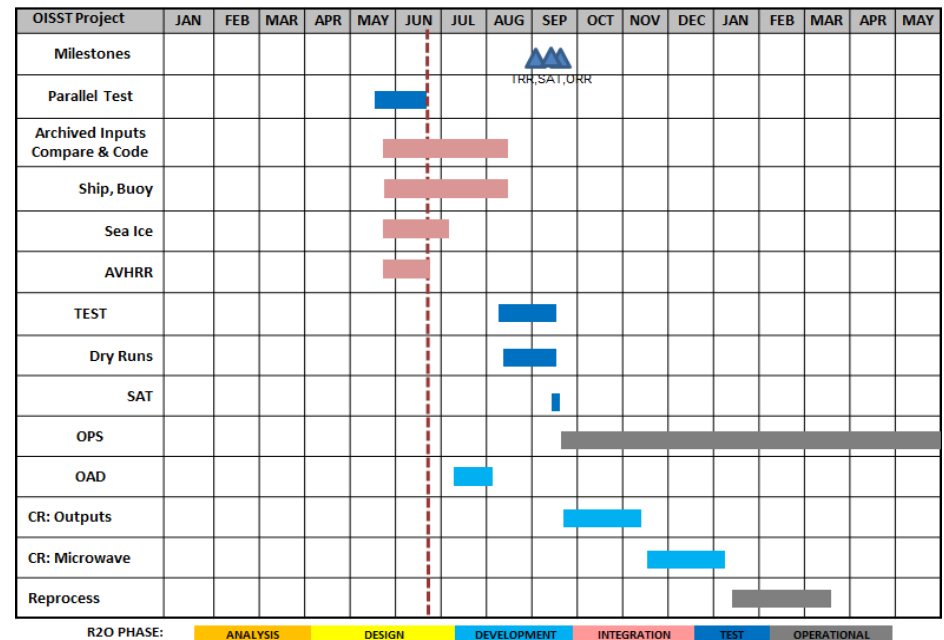
CDR Program Office
OISST Research to Operations Project
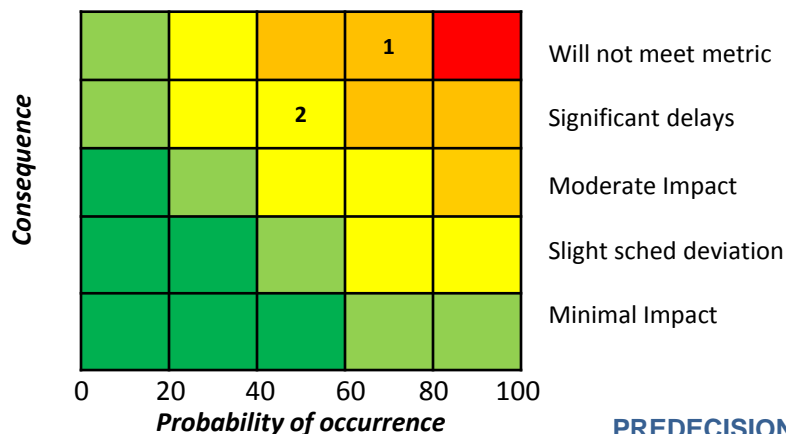
Weekly Report – June 21, 2013

1 **OISST – Optimum Interpolated Sea Surface Temperature**

- **Successfully completed 30 day parallel test.**
- **Comparing NCDC GTS with NCEP ship/buoy data for use. GCAD is resolving issues but requires new operational code.**
- **Comparing NSIDC and OSISAF Sea Ice data with NCEP data.**
- **Removed dependency of the 15 day delay and preliminary run.**
- AVHRR data for the 15 day delay product is available from CLASS.
- Running test data and code on Rainband for parallel test.
- GSTWG discussing inputs and production of preliminary OISST.
- Created a SOP for operational OISST.
- Completed refactoring of each component.
- Conducted Technology Assessment Review July 25.

Operations:

OISST Project	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
Milestones								▲▲▲ TRR,SAT,ORR									
Parallel Test					▬												
Archived Inputs Compare & Code					▬▬▬												
Ship, Buoy					▬▬▬												
Sea Ice					▬												
AVHRR					▬												
TEST								▬▬									
Dry Runs								▬▬									
SAT									▪								
OPS										▬▬▬▬▬▬▬▬▬							
OAD							▬										
CR: Outputs										▬▬							
CR: Microwave											▬▬						
Reprocess													▬▬				

R2O PHASE: ANALYSIS | DESIGN | DEVELOPMENT | INTEGRATION | TEST | OPERATIONAL

Risk Matrix

Consequence (y-axis, top to bottom):
- Will not meet metric
- Significant delays
- Moderate Impact
- Slight sched deviation
- Minimal Impact

Risk **1** located at high consequence/high probability (orange)
Risk **2** located at significant delays/moderate probability (yellow)

Probability of occurrence (x-axis): 0 20 40 60 80 100

Risk and Mitigation

1 Transition to archived inputs for 15 day delay (final) product requires scientific comparison. Schedule depends on successful comparison for transition implementation. Will make an assessment of best way forward after initial comparisons.

2 ITB support is required to move through the three tier environment.

PREDECISIONAL DRAFT INFORMATION

6/26/2013

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